

Title (en)

STEPPED ELECTRODE ASSEMBLY AND BATTERY CELL COMPRISING SAME

Title (de)

GESTUFTE ELEKTRODENANORDNUNG UND BATTERIEZELLE DAMIT

Title (fr)

ENSEMBLE D'ÉLECTRODES ÉTAGÉES ET CELLULE DE BATTERIE COMPRENANT L'ENSEMBLE D'ÉLECTRODES

Publication

EP 2750239 A1 20140702 (EN)

Application

EP 13793708 A 20130527

Priority

- KR 20120056327 A 20120525
- KR 20120127031 A 20121109
- KR 2013004619 W 20130527

Abstract (en)

There is provided an electrode assembly. The electrode assembly includes a stack of unit cells respectively including at least one negative electrode and at least one positive electrode, alternately stacked, wherein at least one separator is placed on each of both sides of the electrodes, and at least one of the unit cells has an area different from that of an adjacent unit cell to form at least one stepped portion on the electrode assembly. In addition, there are also provided a battery cell, a battery pack, and a device that include the electrode assembly.

IPC 8 full level

H01M 10/04 (2006.01); **H01M 50/40** (2021.01); **H01M 10/052** (2010.01); **H01M 10/058** (2010.01); **H01M 50/103** (2021.01); **H01M 50/107** (2021.01)

CPC (source: CN EP KR US)

H01M 10/0413 (2013.01 - KR); **H01M 10/0431** (2013.01 - EP KR US); **H01M 10/0436** (2013.01 - EP KR US); **H01M 10/0459** (2013.01 - KR); **H01M 10/0525** (2013.01 - KR); **H01M 10/0583** (2013.01 - KR); **H01M 10/0585** (2013.01 - KR); **H01M 10/0587** (2013.01 - KR); **H01M 50/105** (2021.01 - KR); **H01M 50/20** (2021.01 - KR); **H01M 50/40** (2021.01 - CN EP US); **H01M 50/531** (2021.01 - KR); **H01M 50/533** (2021.01 - KR); **H01M 10/052** (2013.01 - EP US); **H01M 10/058** (2013.01 - EP US); **H01M 50/103** (2021.01 - CN EP US); **H01M 50/107** (2021.01 - CN EP US); **H01M 2220/10** (2013.01 - KR); **H01M 2220/20** (2013.01 - KR); **H01M 2220/30** (2013.01 - KR); **H01M 2300/0082** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP); **Y02T 10/70** (2013.01 - KR)

Cited by

EP2750241A4; EP2860810A4; US10505230B2; US9660296B2; US9929439B2; EP3107138B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 2014099525 A1 20140410; **US 8945744 B2 20150203**; CN 103765665 A 20140430; CN 103765665 B 20170503; EP 2750239 A1 20140702; EP 2750239 A4 20141231; EP 2750239 B1 20160601; JP 2014523629 A 20140911; JP 5779828 B2 20150916; KR 101379957 B1 20140402; KR 20130132231 A 20131204; KR 20130132342 A 20131204; WO 2013176533 A1 20131128

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US 201314104226 A 20131212; CN 201380002737 A 20130527; EP 13793708 A 20130527; JP 2014521579 A 20130527; KR 20120127031 A 20121109; KR 2013004619 W 20130527; KR 20130069031 A 20130527